

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| L1 | 4 | predetermin\$3 near4 bias near2 voltage and (detect\$3 sens\$3) near4 (fly\$3 near2 height) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 07:34 |
| L2 | 8 | ("20020105750" "20040032681" "5557399" "5600441" "5953125" "5991122" "6212042" "6700724").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 07:21 |
| L3 | 8 | ("4853810" "5153785" "6005736" "6166874" "6196062" "6249393" "6359746" "6570730").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 07:28 |
| L4 | 713 | bias near2 voltage and (detect\$3 sens\$3) near4 ((fly\$3 near2 height) or interference) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 07:35 |
| L5 | 128 | (dc ac) near3 bias near2 voltage and (detect\$3 sens\$3) near4 ((fly\$3 near2 height) or interference) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 07:40 |
| L6 | 78 | 4 and (electric near4 potential) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 07:45 |
| L7 | 4 | fly\$3 near2 height near2 (spac\$3 gap clearance) same (dc or (direct near2 current) or ac or (alternate near2 current)) near3 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 07:46 |
| L8 | 12 | ("5153785" "5377058" "5673156" "5949600" "6005736" "6031685" "6105421" "6140814" "6154340" "6272909" "6366416" "6411470").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 07:47 |
| L9 | 1 | ("4853810").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 07:51 |
| L10 | 22 | ("5153785").URPN. | USPAT | OR | ON | 2005/07/07 07:51 |
| L11 | 21085 | (ac and dc) near4 power near3 (supply source) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 08:03 |

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| L12 | 2 | 11 and (fly\$3 near2 height near2 (spac\$3 clearance gap distance)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 08:04 |
| L13 | 248 | 11 and (head near3 dis\$1 medi\$2 near3 (distance gap clearance spac\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 08:05 |
| L22 | 3066 | 11 and dis\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 08:56 |
| L23 | 9 | 22 and (slider same medi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 09:21 |
| L25 | 3 | (detect\$3 sens\$3) same (interference perturbation) same (slider near3 medi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 09:28 |
| L26 | 15 | ("5901001").URPN. | USPAT | OR | ON | 2005/07/07 09:24 |
| L28 | 2 | dc near3 bias and (interference asperit\$3 perturbation) same (slider near3 medi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/07 09:28 |
| L29 | 30 | ("4532802" "4674875" "4751441" "4811148" "4812927" "4814908" "4816743" "4881136" "4893205" "4931338" "4942609" "5012369" "5270882" "5339702" "5341256" "5367409" "5374946" "5410439" "5412519" "5420736" "5423111" "5424638" "5450256" "5455730" "5527110" "5543989" "5560097" "5581021" "5644455" "5666237").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 09:30 |
| L30 | 10 | ("4812927").URPN. | USPAT | OR | ON | 2005/07/07 09:32 |
| L31 | 14 | ("5168412").URPN. | USPAT | OR | ON | 2005/07/07 09:54 |
| L32 | 174 | (suspension slider) same (bias near2 voltage) | USPAT | OR | ON | 2005/07/07 09:57 |

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| L33 | 1 | ("4605977").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 10:18 |
| L34 | 2 | interference near4 slider near4 (dis\$1 medi\$2) same dc near3 bias near2 voltage | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 10:27 |
| L35 | 3 | interference and slider same (dis\$1 medi\$2) same dc near3 bias near2 voltage | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 10:27 |
| S1 | 1 | ("6205002").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/07/06 13:35 |
| S96 | 9 | bias near2 voltage same fly near2 height | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 11:43 |
| S97 | 14 | bias near2 voltage same fly\$3 near2 height | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 11:53 |
| S98 | 2 | bias near2 voltage near4 (AC and DC) and fly\$3 near2 height and (slider suspension) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 11:55 |
| S99 | 107 | bias near2 voltage and fly\$3 near2 height and (slider suspension) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 11:55 |
| S10 0 | 9 | ("4317149" "4800454" "5465186" "5491605" "5757590" "5757591" "5834952" "5852521" "5877933").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 12:07 |
| S10 1 | 3 | ("6501606").URPN. | USPAT | OR | ON | 2005/06/29 12:10 |

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| S10 2 | 33 | ("4593368" "4681447" "4777544" "4866553" "5218424" "5377058" "5410402" "5453831" "5473431" "5488857" "5495767" "5552884" "5638207" "5673161" "5805284" "5815350" "5828536" "5880587" "5883715" "5892635" "5898553" "6008640" "6249393" "6271924" "6359759" "6411458" "6452735" "6459539" "6473259" "6501606" "6529342" "6570730" "6624892").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 14:26 |
| S10 3 | 8 | (eliminat\$3 eradicat\$3 eras\$3 avoid\$3 terminat\$3) near4 (potential near2 difference) same slider and dis\$1 | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 14:30 |
| S10 4 | 129 | dis\$1 and slid\$3 and (fly\$3 near2 (height spac\$3)) and (bias near2 voltage) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 14:33 |
| S10 5 | 1 | ("6466408").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/29 14:37 |
| S10 6 | 11335 | 360/75,69,31,25.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 14:37 |
| S10 7 | 2 | S106 and (bias near3 voltage) same (slider near5 (dis\$1 medi\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 14:38 |
| S10 8 | 24 | S106 and (bias near3 voltage) and (fly\$3 near2 (height spac\$3 clearance)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/29 14:39 |
| S10 9 | 3 | ("6501606").URPN. | USPAT | OR | ON | 2005/06/29 14:47 |
| S11 0 | 3113 | (fly\$3 near2 (height spac\$3 clearance)) same (dis\$1 medi\$2) | USPAT | OR | ON | 2005/06/29 14:48 |
| S11 1 | 102 | S110 and (AC and DC) | USPAT | OR | ON | 2005/06/29 14:48 |

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| S11 2 | 19 | ("20020030938" "20020097517" "4605977" "4823205" "4931887" "5276573" "5523639" "5764432" "5920978" "5991118" "6005736" "6088907" "6269687" "6359746" "6366416" "6529342" "6700724" "6714499" "6775089").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 14:50 |
| S11 3 | 1 | ("20020097513").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 14:55 |
| S11 4 | 12 | ("5153785" "5377058" "5673156" "5949600" "6005736" "6031685" "6105421" "6140814" "6154340" "6272909" "6366416" "6411470").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 15:05 |
| S11 5 | 1 | ("6366416").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/29 15:05 |
| S11 7 | 1 | ("5859357").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 15:09 |
| S11 8 | 17 | ("3732552" "4340956" "4605977" "4669011" "4853810" "4931887" "5021906" "5276573" "5305294" "5377058" "5719720" "5764432" "5817931" "5862015" "6105421" "6267004" "6351341").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/29 15:18 |
| S11 9 | 72 | (slider suspension) same (fly\$3 near2 (height clearance spac\$3)) and bias near3 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 10:49 |
| S12 0 | 1 | ("6700724").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/30 10:53 |
| S12 1 | 3 | (fly\$3 near2 (height spac\$3 clearance)) same (ac or (aternat\$3 adj2 current) and dc or (direct adj2 current)) near4 bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 10:56 |
| S12 2 | 16 | (fly\$3 near2 (height spac\$3 clearance)) and (ac or (aternat\$3 adj2 current) and dc or (direct adj2 current)) near4 bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 10:56 |

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| S12 3 | 1 | ("6219499").URPN. | USPAT | OR | ON | 2005/06/30 11:03 |
| S12 4 | 4 | ("4610531" "5534982" "5600415" "5701553").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/30 11:03 |
| S12 6 | 148 | fly\$3 near3 (height spac\$3 clearance) same interference same slid\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 14:27 |
| S12 7 | 2 | S126 and (DC near4 bias near2 voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 14:26 |
| S12 8 | 3 | S126 and (DC near4 voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/06/30 14:26 |
| S12 9 | 37 | head near3 (dis\$1 medi\$2) same (spac\$3 or gap or distance or (fly adj2 height)) and (dc near3 ac near4 voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 13:42 |
| S13 1 | 46 | S130 and (ac and dc) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 13:43 |
| S13 3 | 52 | slider near4 (dis\$1 medi\$2) near4 (spac\$3 or gap or distance or (fly adj2 height)) and (bias near2 voltage) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 14:01 |
| S13 5 | 4 | ((AC and DC) near3 voltage) same fly near2 height | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 14:13 |
| S13 6 | 12 | ("5153785" "5377058" "5673156" "5949600" "5991114" "6005736" "6031685" "6105421" "6140814" "6154340" "6272909" "6366416").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/06 15:40 |
| S13 7 | 6 | ((AC or (alternat\$3 adj2 current) and DC or (direct adj2 current)) near3 voltage) same fly near2 height | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 14:18 |

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| S13 8 | 2 | ((AC or (alternat\$3 adj2 current) and DC or (direct adj2 current)) near3 voltage) and fly near2 height and slider near3 medi\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 14:19 |
| S13 9 | 19 | ("20020030938" "20020097517" "4605977" "4823205" "4931887" "5276573" "5523639" "5764432" "5920978" "5991118" "6005736" "6088907" "6269687" "6359746" "6366416" "6529342" "6700724" "6714499" "6775089").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/06 14:19 |
| S14 0 | 57 | interference same slider same medi\$2 and fly\$3 near2 height | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 15:23 |
| S14 1 | 43 | interference and fly\$3 near2 height and bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:15 |
| S14 2 | 2 | dc near2 voltage same (fly\$3 near2 height) same interference near4 slider | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 15:35 |
| S14 3 | 2 | (vary\$3 adjust\$3 chang\$3) near3 bias near2 voltage same fly\$3 near2 height | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/06 15:42 |
| S14 4 | 18 | (vary\$3 adjust\$3 chang\$3) near3 bias near2 voltage and fly\$3 near2 height | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/06 15:44 |
| S14 5 | 24 | (vary\$3 adjust\$3 chang\$3) near5 bias near2 voltage and ((fly\$3 near2 height) or (slider near2 medi\$2 near3 (distance clearance gap spac\$3))) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/06 15:48 |
| S14 6 | 3 | ("6529342").URPN. | USPAT | OR | ON | 2005/07/06 16:11 |
| S14 7 | 46 | (interference perturbation) and fly\$3 near2 height and bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:19 |

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| S14 8 | 1636 | (interference perturbation) same (slider head) near3 (medi\$2 dis\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:19 |
| S14 9 | 1302 | S148 and (clearance distance (fly\$2 near2 height) spac\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:22 |
| S15 0 | 29 | S149 and bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:22 |
| S15 1 | 1313 | S148 and (clearance distance (fly\$3 near2 height) spac\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:23 |
| S15 2 | 31 | S151 and bias near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:23 |
| S15 3 | 368 | S148 and (fly\$3 near2 height) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:23 |
| S15 4 | 6 | S153 and dc near2 voltage | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2005/07/06 16:44 |